

ABSTRACT OF THE DISCLOSURE

A queue descriptor including a head pointer pointing to the first element in a queue and a tail pointer pointing to the last element in the queue is stored in memory. In

- 5 response to a command to perform an enqueue or dequeue operation with respect to the queue, fetching from the memory to a cache only one of either the head pointer or tail pointer and returning to the memory from the cache portions of the queue descriptor modified by the operation.

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